Name:

Teacher:

Grade Four Math Snapshot

Assessment Summary

Competency / Content	Proficiency Marker		
Number Sense	**Emerging**	**Developing**	**Proficient**
Number Identification (1)			
Place Value (2-5)			
Ordering (6)			
Fractions (7)			
Algebraic Thinking, Patterning, and Data Analysis			
Algebraic Thinking (1-2)			
Patterning (3-5)			
Data Analysis (6)			
Measurement and Financial Literacy			
Measurement (1)			
Financial Literacy (2)			
Computational Fluency			
Anecdotal assessment of +/- basic fact fluency through observation/interview/games			
Addition (1-2)			
Subtraction (3-4)			
Multiplication (5-7)			
Division (8-9)			

Grade Four

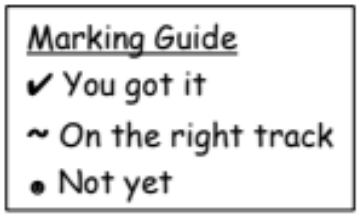
This grade four Math Skills Assessment has been designed as a formative assessment and universal screener for students entering grade four. The assessment is based on foundational skills from the prior year, and is designed to allow educators to identify the learning needs of students.

The information gained from this tool will serve as a universal screener and will inform individual, small group, and class instruction. It will also help identify patterns of instructional needs in a class as we work to ensure students master these foundational math skills.

Teachers are encouraged to administer the assessment in *small sections* during the first weeks of the semester. A small team of teachers will come together to mark the assessments and heat map the results by class.

This screener is an inventory of skills and does not represent the full, complex set of skills necessary for proficiency in mathematics. It can provide information to inform our Inclusive Education team about planning and support for student success.

Use the column to the right of each question to indicate student understanding using the following marking guide. Scoring of the assessment will not be calculated numerically, but rather will be looked at holistically to help inform instruction:

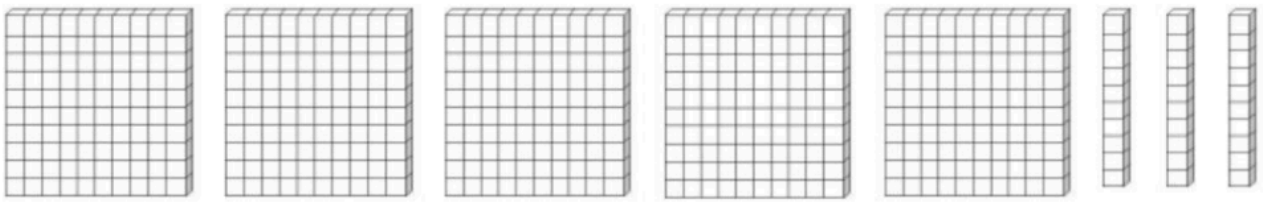
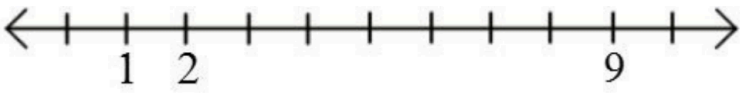


Students will also complete a self-reflection following each section of the screener:

This was (circle one):	Easy for me	I need some review	Difficult

Name: **Date:**

Number Sense

	Number Identification	
1.	Write the number your teacher says. A. _____ B. _____ C. _____ D. _____	
	Place Value	
2.	What number is shown by the blocks? _____ 	
3.	Write the following numbers on the number line: 5 3 10  	
4.	What is the <u>value</u> of the underlined number? _____ 7<u>7</u>7	
5.	Write the number **276** in word form.	

Ordering		
6.	Order these numbers from least to greatest. 605; 714; 711; 709 _____, _____, _____, _____	
Fractions		
7.	What fraction of the shape is shaded? _____ 	

<u>This was (circle one)</u>:	Easy for me	I need some review	Difficult

Name: **Date:**

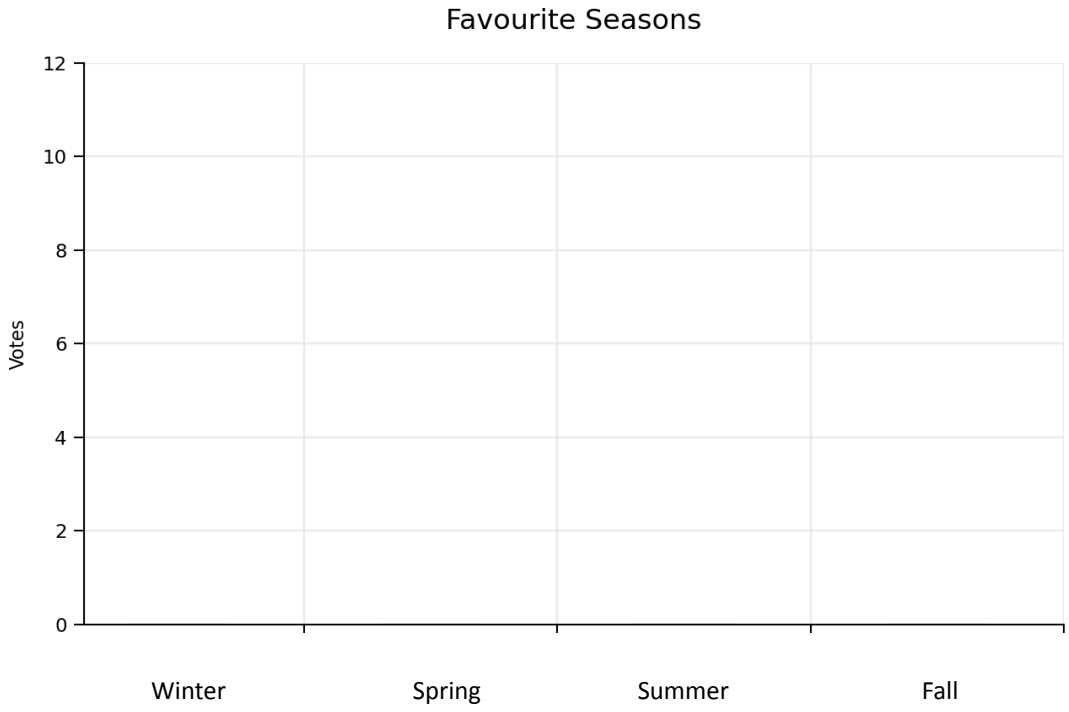
Algebraic Thinking, Patterning, and Data Analysis

Algebraic Thinking		
1.	Solve the following question: $4 + 3 = 5 + \square$	
2.	Solve the following question: 66 - _____ = 34	
Patterning		
3.	Fill in the missing numbers to continue the pattern. 15; 18; 21; _____; _____	
4.	Jack is stacking cans. Draw the next row below. 	
5.	If Jack continued to add cans, how many cans would there be <u>IN TOTAL</u> if there were seven rows?	

Data Analysis

6. A group of students were asked which season they like best. The results were recorded using tally marks. Complete the bar graph below.

Season	Tally
Winter	𝍸 ||
Spring	𝍸
Summer	𝍸 𝍸
Fall	||



Measurement and Financial Literacy

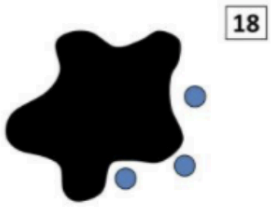
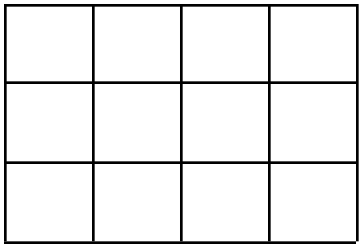
	Measurement	
1.	Circle the approximate length of this line. _____ 15 m 15 mm 15 cm 15 km	
	Financial Literacy	
2.	What is the value of this money? There are: 3 loonies 2 quarters 2 dimes 3 nickels 	

<u>This was (circle one)</u>:	Easy for me	I need some review	Difficult

Name: **Date:**

Computational Fluency

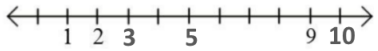
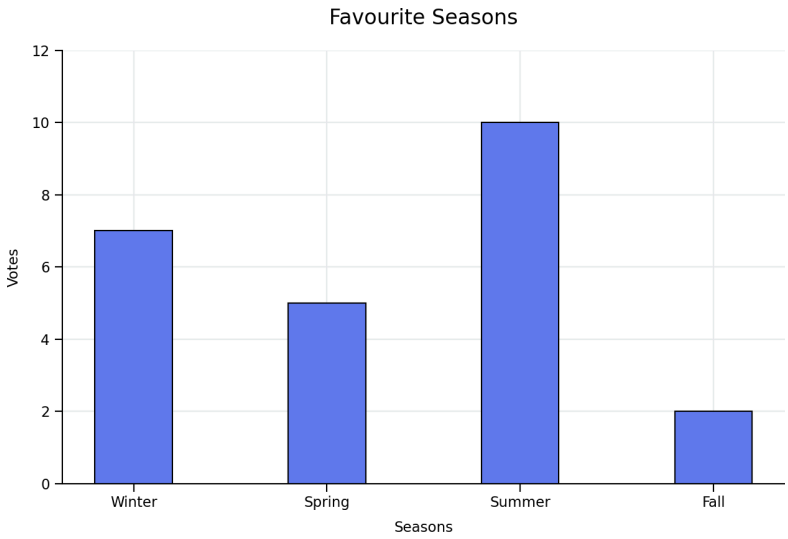
Addition		
1.	How would you <u>estimate</u> this equation? 78 + 91	
2.	Solve the following questions and show how you solved it: a) 42+19 b) 562 + 57	
Subtraction		
3.	Solve the following questions and show how you solved it: a) 42-19	

	b) 502-326	
4.	Here is a Splat! problem to solve. If there are 18 dots altogether, how many dots are under the Splat?  	
	Multiplication	
5.	Write and solve a multiplication sentence based on this array. 	
6.	Rewrite this equation as a multiplication and include the answer. How did you solve it? 4 + 4 + 4 + 4 + 4 + 4 =	
7.	Write a story for the problem 3 x 6 and find the answer.	

Division		
8.	Draw a picture to show how you would solve this question and write the answer. 15 ÷ 3	
9.	Some friends shared 36 fun fair tickets. Each person received the same number of tickets. How many friends might there have been? _____ How many tickets did each friend receive? _____ 	

<u>This was (circle one)</u>:	Easy for me	I need some review	Difficult

Answer Key

Number Sense	Answers	
Number Identification	**1.**	a) 48 b) 257 c) 878 d) 593
Place Value	**2.**	530
	3.	
	4.	70
	5.	Two hundred seventy-six
Ordering	**6.**	605; 709; 711; 714
Fractions	**7.**	2/5
Algebraic Thinking, Patterning, and Data Analysis		
Algebraic Thinking	**1.**	2
	2.	32
Patterning	**3.**	24; 27
	4.	Student has drawn 5 cans below
	5.	28
Data Analysis	**6.**	
Measurement and Financial Literacy		
Measurement	**1.**	15 cm

Financial Literacy	**2.**	$3.85
Computational Fluency		
Addition	**1.**	80 + 90 = 170
	2.	a) 61 b) 619 Solutions may vary but should show evidence of a strategy
Subtraction	**3.**	a) 23 b) 176
	4.	15
Multiplication	**5.**	3 x 4 = 12 or 4 x 3 = 12
	6.	6 x 4 = 24 or 4 x 6 = 24 Solutions may vary but may include a multiplication sentence, simplifying addition, number line
	7.	18 Solutions may vary. I.e. There are 3 baskets with 6 muffins in each basket. How many muffins altogether?
Division	**8.**	5 Draw an array or repeated subtraction, groups of, number line, bar model
	9.	Look for invented flexible, efficient strategies. The story-problem contexts can help students make sense of division. In this situation, the student knows the number of tickets and is to represent fair shares. Possible solutions: 4 friends with 9 tickets each. 3 friends with 12 tickets each. 2 friends with 18 tickets each. 6 friends with 6 tickets each.